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June 14, 1960

Fig. 1

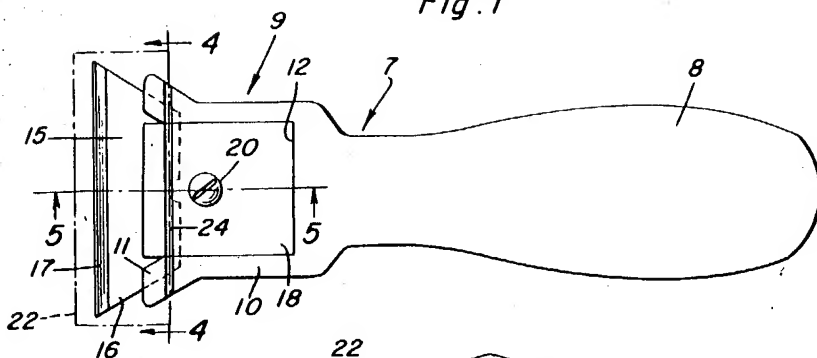


Fig. 3

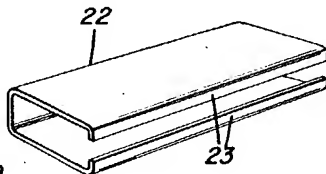


Fig. 2

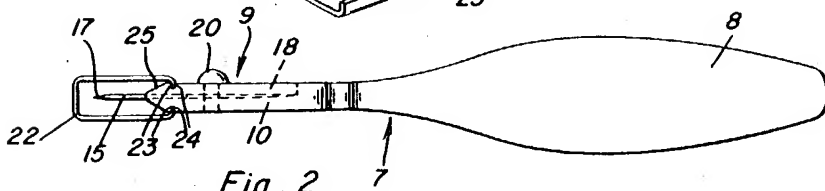


Fig. 4

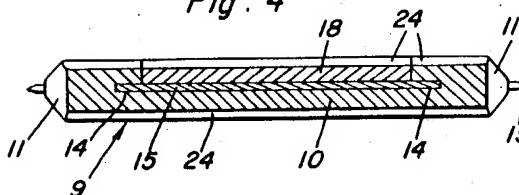


Fig. 6

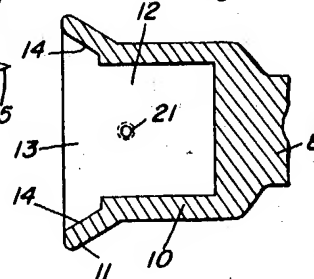
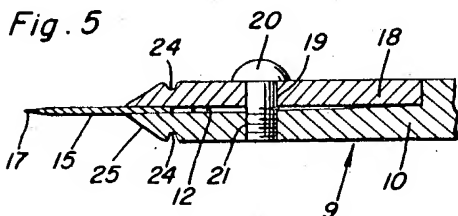


Fig. 5



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Patent No. 599,715

Scraper

Arthur F. Fisher, Carlton, Oregon, U.S.A.  
Application September 3, 1957, Serial No. 735,734 5  
In the United States February 28, 1957  
2 Claims

The present invention relates to new and useful improvements in scrapers particularly for removing paint, etc., from glass, metal and other surfaces and has for its primary object to provide, in a manner as hereinafter set forth, a device of this character comprising a holder including novel means for firmly securing a removable, heavy-duty shop knife or blade of a well-known type in position for use.

Another very important object of the invention is to provide a scraper of the aforementioned character which includes a removable guard of novel construction for protecting the blade when the device is not in use.

Other objects of the invention are to provide a scraper of the character described which will be comparatively simple in construction, strong, durable, compact, of light weight and which may be manufactured at low cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a top plan view of a scraper constructed in accordance with the present invention;

Figure 2 is a view in side elevation thereof;

Figure 3 is a detail view in perspective of the removable blade guard;

Figure 4 is a view in transverse section, taken substantially on the line 4-4 of Figure 1;

Figure 5 is a view in vertical longitudinal section, taken substantially on the line 5-5 of Figure 1; and

Figure 6 is a view in horizontal section through the head portion of the holder.

Referring now to the drawing in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a holder of suitable metal which is designated generally by reference character 7. The holder 7, which may also be of any desired dimensions, includes an elongated handle 8. The holder 7 further includes a head 9 on the forward end of the handle 8.

The head 9 comprises a substantially flat plate 10 which is integral with the handle 8, said plate including a flared forward end portion 11. Formed in the top of the plate 10 and extending thereinto from the forward end thereof is a recess or depression 12 the forward end portion 13 of which is flared. The side walls of the flared forward end portion 13 of the recess 12 are undercut in a manner to provide forwardly divergent grooves or channels 14.

The flared forward end portion 13 of the recess 12 is for the reception of the back portion of a substantially trapezoidal shop knife or blade 15, the end portions 16 of which are slidably engageable in the grooves or channels 14. The cutting edge of the blade 15 is indicated at 17.

A clamping plate 18 of suitable metal is mounted in the recess 12 for frictionally securing the blade 15 in position. The clamping plate 18 has formed

therein an opening 19 which accommodates a screw or bolt 20 for securing said plate 18 in operative position with its forward end portion engaged on the rear portion of the blade 15. The element 20 is preferably a conventional stove bolt of appropriate size which is threaded into an opening 21 provided therefor in the plate 10.

A substantially U-shaped guard 22 of suitable metal is provided for the blade 15. The guard 22 comprises, on its free longitudinal edges, intumed lips or flanges 23 which are slidably engageable in transverse grooves or channels 24 which are provided therefor in the top and bottom of the head assembly 9. It will be noted that one of the grooves or channels 24 extends across the clamping plate 18. The guard 22 is resilient and said guard is tensioned when it is mounted on the head assembly 9 to be frictionally retained thereon, the flanges or lips 23 snapping into the grooves or channels 24. The forward end portion of the head assembly 9 is tapered, as indicated at 25.

It is thought that the use of the device will be readily apparent from a consideration of the foregoing. Briefly, the bolt 20 is loosened to permit the blade 15 to be inserted in the grooves or channels 14 between the forward end portions of the plates 10 and 18. The bolt 20 is then tightened for clamping the blade 15 between the plates 18 and 10 in an obvious manner. The construction and arrangement is such as to positively lock the blade 15 against shifting or rocking. The scraper is now ready for use. When the work has been completed a resilient guard 22 is slipped on the head assembly 9 over the tapered forward end portion 25 of said head assembly, the lips or flanges 23 snapping into the grooves or channels 24. When thus mounted on the holder 7, the guard 22 encloses and protect the blade 15. To remove the guard 22, said guard may be slipped laterally off the head assembly 9. The shop blade 15 is much stronger and safer than the usual safety razor blades and more durable and efficient in removing old paint, etc.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:-

1. A scraper of the character described comprising: an elongated handle, a flat plate integral with the distal end of said handle, the forward end portion of said plate being increased in width and flared outwardly, said plate having in its top a recess embodying a flared, open forward end portion defining divergent side walls, said side walls having channels therein, the inwardly situated ends of said channels defining blade supporting shoulders a rigid blade substantially trapezoidal in shape removably seated in the flared end portion of the recess and having its ends seated in the channels and resting against said shoulder, a clamping plate removably mounted in the recess and resting atop the blade, and a bolt threadedly mounted in the first named plate and engaged with the clamping plate for binding the same against the blade.

2. For use in holding a rigid scraping blade which is trapezoidal in shape and is well suited in effectually scraping paint from glass surfaces; a blade

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holder comprising a handle provided at the distal end of the handle with a head, said head embodying a plate generally rectangular in plan and having its distal end gradually increased in width and providing outwardly and forwardly flared portions, said plate having a recess therein opening through the top of the plate and also through the distal end of the plate, said flared portions having blade receiving and keying grooves therein, said grooves coplanar with the bottom of the recess and communicating with the

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recess and defining blade receiving and supporting shoulders at the junction of the rearward ends of the grooves with the forward end portion of the recess, and a clamping plate fitted removably in said recess and having a forward end portion projecting to and terminating flush with the forward open end of the recess and thus adapted to overlie and clampingly secure a cooperating portion of a blade in position with the tapering end portions of the blade engaged 10 in the grooves and seated against the shoulders.